

Maloney LineMRKR™

Zero-Maintenance,
Pipeline-Tough
Line Markers



LineMRKR™ Main Functions

1. RIGHT OF WAY LINE MARKER

LineMRKR™ pipeline / utility markers are used to indicate the location of a buried pipeline, cable, conduit, etc.-

- ◆ to help construction crews avoid accidentally damaging them,
- ◆ to warn the general public that there is a buried pipeline or utility in the area, and
- ◆ to identify the owner.

2. VENTS

Vents are used to vent the crossing casing to the atmosphere to help maintain conditions for optimum cathodic protection.

3. TEST STATIONS

Test Stations are used to monitor the effectiveness of the cathodic protection program.



LineMRKR™ Advantages

DURABILITY

Maloney LineMRKR's are made of ultraviolet-stabilized High Density Polyethylene (HDPE) to inhibit fading and warping from exposure to the elements. And unlike painted metal signs, they will not absorb water, peel, or rust.

LineMRKR™ samples were tested by an independent testing laboratory according to the procedures in Federal (Military) Test Standard 191A, Method 5804, "Accelerated Severe Weathering Test."

As a result of these tests, Maloney offers a limited **25-year warranty** on the LineMRKR™ product line.

EASY INSTALLATION

Simply bury the base of the support post in the ground. An anchor tube, perpendicular to the support post in the buried portion of the post, prevents twisting or removal without completely excavating the LineMRKR™.

HIGH VISIBILITY

LineMRKR's fittings are available in vivid colors selected to stand out in any background environment. Its 3-1/2" O.D. tubular design is highly visible from any angle as well as from the air. Optional fluorescent fittings increase visibility from any sight plane. Text messages are hot-stamped for durability into the fittings, not screen printed or stencilled.

VIRTUALLY NO MAINTENANCE

Because LineMRKR's require no maintenance, their purchase assures low cost over the life of the installation.

NON-METALLIC CONSTRUCTION

The HDPE construction is non-conductive and will not spark when struck. This eliminates the possibility of spark ignition, fire or explosion in hazardous combustible locations.

WIND RESISTANCE

The tubular configuration makes the Maloney LineMRKR™ less susceptible to "wind whip" - a common problem with 2-dimensional metal signs and other flat markers which have a large "footprint" in the wind.

(More information on reverse side)

LineMrkr™ / Test Station Combination

The Maloney Combination Pipeline Marker and Test Station offers the versatility of a pipeline warning marker **and** a cathodic protection test station that is capable of:

- ◆ Pipe-to-soil potential measurements
- ◆ Measurements and/or restriction of anode current output

◆ Measurements of IR drop along the pipeline

◆ Tests for shorted casings and pipeline bondings

The cathodic protection Test Station is molded as part of the LineMRKR fitting. The combination LineMRKR/Test Station is also designed to enable test readings to be taken

without removing the cover.

Test lead terminal connections are available with 1/4" x 20 NC x 1-1/2" silicone-bronze machine screws with 2 nuts and washers, or highest quality non-corrosive 5-way hex-head binding post rated for 30 Ampere current capacity and 1000 Volt working voltage.

How to Order

For **LineMRKR Fitting and Support Post** specify:

- ◆ Post length
- ◆ Color
- ◆ Quantity
- ◆ Color of fitting and message
- ◆ Message text
- ◆ Company logo to be imprinted

For **Vents and Support Post** specify:

- ◆ Post length
- ◆ Color
- ◆ Quantity
- ◆ Color of vent
- ◆ Message text for sleeve
- ◆ Company logo to be imprinted

Product	Nominal O.D.	Length
A. LineMRKR™		
1. Fitting	3-3/4"	18"
2. Support Post	3-1/2"	72"
B. Test Station / LineMRKR Combination		
1. Test Station Fitting	3-3/4"	18"
2. Support Post	3-1/2"	72"
C. Vent Pipes		
1. Vent Fitting	3"	20-1/4"
2. Support Post	3-1/2"	72"
3. Sleeve	3-3/4"	15"
D. Anchor Tube		
	7/8"	9"

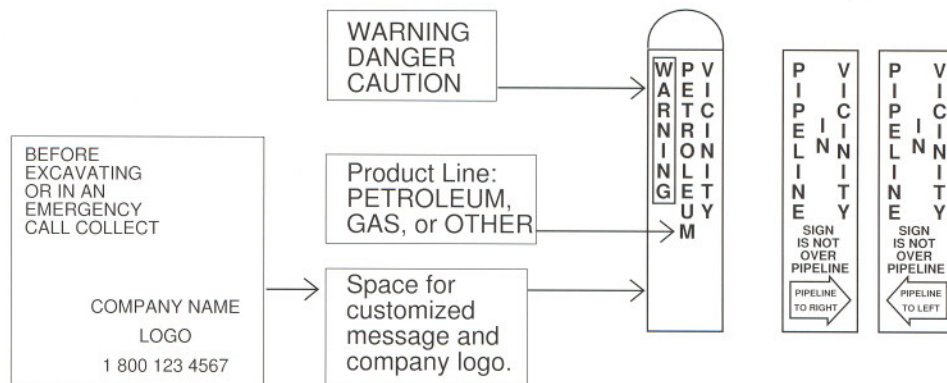
*Support Posts can be supplied in custom lengths, length shown is standard.

Components are mechanically riveted with stainless steel rivets. Maloney LineMRKR's are supplied to meet DOT standards:
Line Markers 195.410 and Line Markers for Mains and Transmission Lines 192.707.



For **Combination LineMRKR / Test Station, and Support Post** specify:

- ◆ Number of terminals
- ◆ Number and size of shunts
- ◆ Type of 25 watt resistor
- ◆ Color of fitting and message
- ◆ Message text



Sample of Warning Message to be hot-stamp printed onto the LineMRKR fittings. Lettering should be 1" high and 1" wide with 1/4" stroke to conform to Department of Transportation (DOT) requirements. Text messages can be custom created by the customer in any format desired. Company logos in multiple colors can be imprinted as well.